

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A plasma display, comprising:
a plasma display panel, which includes:
first and second substrates arranged to face each other;
scanning electrodes and common electrodes alternately provided with each other
on a side of said first substrate facing said second substrate and extending
in a first direction; and
data electrodes provided on a side of said second substrate facing said first
substrate and extending in a second direction across said first direction;
data drivers which apply data pulse to said data electrodes;
a control circuit which controls operation of said data drivers based on a video signal; and
a temperature detector for detecting a temperature around said data drivers and for
generating a temperature signal when said temperature exceeds a previously set specified
temperature;
a total power detector for detecting a sum of currents supplied from said data drivers to
said data electrodes within a time span which is greater than or equal to one sub-field and less
than one frame, and for generating a total power control signal when said sum of currents
exceeds a predetermined current level;

an individual power detector for detecting an individual current supplied from at least one data driver among said data drivers to said data electrode, and for generating an individual power control signal in response to said temperature signal when said individual current exceeds a predetermined current level; and

a protection signal output circuit which outputs a first protection signal to restrain an operation of said data drivers to said control circuit in response to said total power control signal and which outputs a second protection signal to restrain an operation of said at least one data driver to said control circuit in response to said individual power control signal~~when a sum of currents supplied from said data drivers to said data electrodes within a time span exceeds a previously set first specified current value, wherein said first protection signal restrains the operation of said data drivers;~~

~~wherein said time span is greater than or equal to one sub-field; and~~

~~wherein said time span is less than one frame.~~

2. (canceled).

3. (currently amended): A plasma display, comprising:
a plasma display panel, which includes:

first and second substrates arranged to face each other;

scanning electrodes and common electrodes alternately provided with each other
on a side of said first substrate facing said second substrate and extending
in a first direction; and

data electrodes provided on a side of said second substrate facing said first
substrate and extending in a second direction across said first direction;

data drivers which apply data pulse to said data electrodes;

a control circuit which controls operation of said data drivers based on a video signal; ~~and~~

a temperature detector for detecting a temperature around said data drivers and for
generating a temperature signal when said temperature exceeds a previously set specified
temperature;

an individual power detector for detecting an individual current supplied from at least one
data driver among said data drivers to said data electrode, and for generating an individual power
control signal in response to said temperature signal when said individual current exceeds a
predetermined current level; and

a protection signal output circuit which outputs a first protection signal and which outputs
a second protection signal to restrain an operation of said at least one data driver to said control
circuit in response to said individual power control signal;

~~wherein said protection signal output circuit outputs a first protection signal when a
current from at least one data driver among said data drivers to said data electrode has exceeded
a previously set first specified current value; and~~

~~wherein said protection signal output circuit judges whether or not a current supplied from at least one data driver among said data drivers to said data electrode has exceeded a previously set second specified current value, and outputs a second protection signal to said control circuit when the current supplied to said at least one data driver has exceeded said second specified current value, and wherein said second protection signal restrains the operation of said at least one data driver.~~

4.-5. (canceled).

6. (original): The plasma display according to claim 1, wherein said control circuit sequentially deletes sub-fields from a least significant bit among sub-fields which compose one frame with an input of said first protection signal as a trigger.

7. (original): The plasma display according to claim 3, wherein said control circuit sequentially deletes sub-fields from a least significant bit among sub-fields which compose one frame with an input of said second protection signal as a trigger.

8. (original): The plasma display according to claim 1, wherein said control circuit allows said data drivers to apply equal data pulses to adjacent two scanning electrodes among said scanning electrodes with an input of said first protection signal as a trigger.

9. (original): The plasma display according to claim 3, wherein said control circuit allows said data drivers to apply equal data pulses to adjacent two scanning electrodes among said scanning electrodes with an input of said second protection signal as a trigger.

10. (previously presented): The plasma display according to claim 1, wherein said protection signal output circuit comprises a microcomputer.

11. (previously presented): The plasma display according to claim 3, wherein said protection signal output circuit comprises a microcomputer.

12. (currently amended): A method of driving a plasma display including data drivers which apply a data pulse to data electrodes, comprising:

generating a temperature signal when a temperature around said data drivers exceeds a previously set specified temperature;

detecting a sum of currents supplied from said data drivers to said data electrodes within a time span which is greater than or equal to one sub-field and less than one frame;

generating a total power control signal when said sum of currents exceeds a predetermined current level;

detecting an individual current supplied from at least one data driver among said data drivers to said data electrode;

generating an individual current control signal in response to said temperature signal
when said individual current exceeds a predetermined current level;

restraining an operation of said data drivers in response to said total power control signal;
and

restraining an operation of said at least one data driver in response to said individual
current control signal~~when a sum of currents supplied from said data drivers to data electrodes~~
~~within a time span exceeds a previously set first specified current value;~~

~~wherein said time span is greater than or equal to one sub-field; and~~

~~wherein said time span is less than one frame.~~

13. (canceled).

14. (currently amended): A method of driving a plasma display including data drivers
which apply a data pulse to data electrodes, comprising:

generating a temperature signal when a temperature around said data drivers exceeds a
previously set specified temperature;

detecting an individual current supplied from at least one data driver among said data
drivers to said data electrode;

generating an individual current control signal in response to said temperature signal
when said individual current exceeds a predetermined current level; and

~~determining whether or not a current supplied from at least one data driver among data drivers to data electrodes has exceeded a first specified current value;~~

~~judging whether or not a current supplied from at least one data driver among data drivers to data electrodes has exceeded a second specified current value; and~~

~~restraining thean operation of said at least one data driver in response to said individual current control signal when the current supplied to said at least one data driver exceeds said second specified current value.~~

15.-16 (canceled).

17. ((previously presented): The method of driving a plasma display according to claim 12, wherein said restraining the operation of said drivers further comprises deleting sub-fields sequentially from a least significant bit among sub-fields that compose one frame.

18. (previously presented): The method of driving a plasma display according to claim 14, wherein said restraining the operation of said drivers further comprises deleting sub-fields sequentially from a least significant bit among sub-fields that compose one frame.

19. (previously presented): The method of driving a plasma display according to claim 12, wherein said restraining the operation of said one data driver further comprises applying equal data pulses to adjacent two scanning electrodes.

20. (previously presented): The method of driving a plasma display according to claim 14, wherein said restraining the operation of said one data driver further comprises applying equal data pulses to adjacent two scanning electrodes.

21.-31. (canceled).